

# EUROPEAN PATENT OFFICE

## **Patent Abstracts of Japan**

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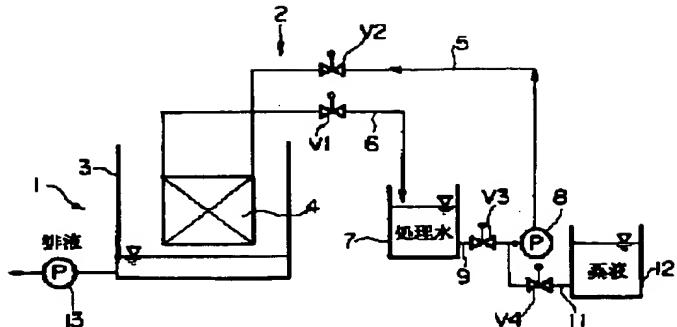
**APPLICATION DATE** : 17-03-95  
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APPLICANT : MAEZAWA IND INC;

**INVENTOR :** KAZUI TORU;

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**TITLE : METHOD FOR WASHING MEMBRANE  
WITH LIQUID CHEMICAL IN  
IMMERSION TYPE MEMBRANE  
FILTER AND DEVICE THEREFOR**



**ABSTRACT :** PURPOSE: To shorten washing time and to wash a membrane with a small amount of liquid chemical by discharging raw water in an immersion tank to expose the membrane to the atmosphere, and then allowing liquid chemical for washing to flow for the membrane from a treated water side of the membrane to a raw water side thereof.

**CONSTITUTION:** In a washing process using a liquid chemical, firstly, raw water in an immersion tank 3 is discharged by a pump 13 and a membrane module 4 is exposed to the atmosphere. In this state, valves V1, V3 are closed and valves V2, V4 are opened and a pump 8 is driven and liquid chemical in a liquid chemical tank 12 is primarily stored inside the membrane. In the meantime, the membrane is immersed from the inside of the membrane to the outside and turbid substance in the membrane is dissolved. Liquid chemical penetrated into the membrane is collected in the bottom of the immersion tank 3 and led to a waste liquid tank by the pump 13. Thereafter, the membrane is transferred to an ordinary filtration process. Since liquid chemical is penetrated into the membrane in this way and the membrane is washed, a small amount of liquid chemical is sufficient, and washing effect is increased because the membrane is exposed to the atmosphere.

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